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BIOTECHNOLOGY
SYSTEMS
BRANCH



#13

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/005,318B

Source: 1646

Date Processed by STIC: 6/23/2000

RECEIVED

JUL 12 2000

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY**
or,
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1646

RAW SEQUENCE LISTING DATE: 06/23/2000
 PATENT APPLICATION: US/09/005,318B TIME: 06:20:30

Input Set : A:\401c1.app
 Output Set: N:\CRF3\06222000\I005318B.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 C--> 6 (i) APPLICANT: Hein, Mich B.
 7 Hiatt, Andrew C.
 8 Fitch, John H.
 10 (ii) TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE TARGETING AGENT
 12 (iii) NUMBER OF SEQUENCES: 140
 14 (iv) CORRESPONDENCE ADDRESS:
 15 (A) ADDRESSEE: SEED IP LAW GROUP PLLC
 16 (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
 17 (C) CITY: Seattle
 18 (D) STATE: Washington
 19 (E) COUNTRY: USA
 20 (F) ZIP: 98104
 22 (v) COMPUTER READABLE FORM:
 23 (A) MEDIUM TYPE: Floppy disk
 24 (B) COMPUTER: IBM PC compatible
 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 C--> 28 (vi) CURRENT APPLICATION DATA:
 C--> 29 (A) APPLICATION NUMBER: US/09/005,318B
 C--> 30 (B) FILING DATE: 09-Jan-1998
 31 (C) CLASSIFICATION:
 33 (viii) ATTORNEY/AGENT INFORMATION:
 34 (A) NAME: Sharkey, Richard G.
 35 (B) REGISTRATION NUMBER: 32,629
 36 (C) REFERENCE/DOCKET NUMBER: 310098.401C1
 38 (ix) TELECOMMUNICATION INFORMATION:
 39 (A) TELEPHONE: (206) 622-4900
 40 (B) TELEFAX: (206) 682-6031

Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

E--> 472 (2) INFORMATION FOR SEQ ID NO:
 459 (i) SEQUENCE CHARACTERISTICS:
 475 (A) LENGTH: 286 base pairs
 476 (B) TYPE: nucleic acid
 477 (C) STRANDEDNESS: single
 478 (D) TOPOLOGY: linear
 467 (ix) FEATURE:
 468 (A) NAME/KEY: CDS
 469 (B) LOCATION: 1..282
 480 (ix) FEATURE:
 481 (A) NAME/KEY: CDS
 482 (B) LOCATION: 1..282
 E--> 488 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

delete duplicate material (see back page)

RAW SEQUENCE LISTING DATE: 06/23/2000
 PATENT APPLICATION: US/09/005,318B TIME: 06:20:30

Input Set : A:\401c1.app
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490 GAT CAG AAG TGC AAG TGT GCT CGT ATT ACT TCT AGA ATC ATC CGT AGC 48
 491 Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser
 W--> 492 15 20 25 30
 494 TCA GAG GAC CCA AAT GAA GAT ATA GTC GAA CGT AAC ATC CGT ATC ATC 96
 495 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile
 W--> 496 35 40 45
 498 GTC CCA CTG AAT AAC CGG GAG AAT ATC TCA GAT CCT ACA AGT CCG TTG 144
 499 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu
 W--> 500 50 55 60
 502 CGC ACA CGC TTC GTA TAC CAC CTG TCA GAT CTG TGT AAG AAG TGT GAT 192
 503 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp
 W--> 504 65 70 75
 506 CCA ACA GAG GTA GAG CTG GAC AAT CAG ATA GTC ACT GCG ACT CAA AGC 240
 507 Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser
 W--> 508 80 85 90
 510 AAC ATT TGC GAT GAG GAC AGC GCT ACA GAA ACC TGC TAC TGA 282
 511 Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr
 W--> 512 95 100 105
 514 ATTC 286
 E--> 517 (2) INFORMATION FOR SEQ ID NO: 14:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 105 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ix) FEATURE:
 (A) NAME/KEY: CDS
 (B) LOCATION: 1..105
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
 535 GAT CTG TGT AAG AAG TGT GAT CCA ACA GAG GTA GAG CTG GAC AAT CAG 48
 536 Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln
 W--> 537 95 100 105 110
 539 ATA GTC ACT GCG ACT CAA AGC AAC ATT TGC GAT GAG GAC AGC GCT ACA 96
 540 Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr
 W--> 541 115 120 125
 543 GAA ACC TGC 105
 544 Glu Thr Cys
 1191 (2) INFORMATION FOR SEQ ID NO: 45:
 1193 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 16 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS:
 (D) TOPOLOGY: linear
 1203 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:
 E--> 1205
 Ala Ile Gln Asp Pro Arg Leu Phe Ala Glu Glu Lys Ala Val Ala Asp
 2303 (2) INFORMATION FOR SEQ ID NO: 111:
 2305 (i) SEQUENCE CHARACTERISTICS:
 2306 (A) LENGTH: 30 amino acids
 2307 (B) TYPE: amino acid

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insert hand return so that
 1 5 numbers
 will be
 under
 amino acid

RAW SEQUENCE LISTING

DATE: 06/23/2000

PATENT APPLICATION: US/09/005,318B

TIME: 06:20:31

Input Set : A:\401cl.app

Output Set: N:\CRF3\06222000\I005318B.raw

2308 (C) STRANDEDNESS:
2309 (D) TOPOLOGY: linear
2314 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:
2316 Val Arg Asp Gln Ala Gln Glu Asn Arg Ala Ser Gly Asp Ala Gly
E--> 2317 1 5 10 15
2319 Ser Ala Asp Gly Gln Ser Arg Ser Ser Ser Ser Lys Val Leu Phe
E--> 2320 16 20 25 30
2322 (2) INFORMATION FOR SEQ ID NO: 112:
2324 (i) SEQUENCE CHARACTERISTICS:
2325 (A) LENGTH: 25 amino acids
2326 (B) TYPE: amino acid
2327 (C) STRANDEDNESS:
2328 (D) TOPOLOGY: linear
2334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:
2336 Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
E--> 2337 1 5 10 15
2339 Pro Ser Pro Ser Cys Cys His Pro Arg Leu
E--> 2340 16 20 25

← (misaligned amino
acid nos)
fix nos
← (see seq 4
on Encl
summary sheet)

VERIFICATION SUMMARY

DATE: 06/23/2000

PATENT APPLICATION: US/09/005,318B

TIME: 06:20:32

Input Set : A:\401cl.app

Output Set: N:\CRF3\06222000\I005318B.raw

L:6 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]
 L:28 M:220 C: Keyword misspelled or invalid format, [(vi) CURRENT APPLICATION DATA:]
 L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
 L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
 L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
 L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
 L:433 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:11
 L:480 M:201 W: Mandatory field data missing, SeqNo=13, [INFORMATION FOR SEQ ID NO:]
 L:480 M:202 E: (16) Value must be an Integer, Data=[]
 L:488 M:212 E: (34) Invalid or duplicate Sequence ID Number, Data=[13:]
 L:492 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:496 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:500 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:504 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:508 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:512 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
 L:517 M:216 E: (34) Seq.#s missing, 15 thru 13
 L:537 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
 L:541 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
 L:1148 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
 L:1152 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
 L:1205 M:203 E: No. of Seq. differs, LENGTH:Input:16 Found:0 SEQ:45
 L:2317 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:111
 M:332 Repeated in SeqNo=111
 L:2337 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:112
 M:332 Repeated in SeqNo=112
 L:2486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
 L:2489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
 L:2640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
 L:2646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
 L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123

STATISTICS SUMMARY

DATE: 06/23/2000

PATENT APPLICATION: US/09/005,318B

TIME: 06:20:32

Input Set : A:\401c1.app

Output Set: N:\CRF3\06222000\I005318B.raw

Application Serial Number: US/09/005,318B

Alpha or Numeric: Alpha

Application Class: 514

Application File Date: 01-09-1998

Art Unit: 1646

Software Application: PatentIn

Total Number of Sequences: 140

Number of Errors: 8

Number of Warnings: 19

Number of Corrections: 4

MESSAGE SUMMARY

201 W: 1 (Mandatory field data missing)
202 E: 1 ((16) Value must be an Integer)
203 E: 1 (No. of Seq. differs)
212 E: 1 ((34) Invalid or duplicate Sequence ID Number)
216 E: 1 ((34) Seq.#s missing)
220 C: 4 (Keyword misspelled or invalid format)
332 E: 4 ((32) Invalid/Missing Amino Acid Numbering)
341 W: 7 ((46) "n" or "Xaa" used)
336 W: 11 (Invalid Amino Acid Number in Coding Region)